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NOTICE OF ALLOWANCE AND FEE(S) DUE

025191

7590

07/12/2004

BURR & BROWN PO BOX 7068 SYRACUSE, NY 13261-7068 EXAMINER
KOVALICK, VINCENT E

2673

PAPER NUMBER

DATE MAILED: 07/12/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/803,744	03/08/2001	Yukihisa Takeuchi	789_067	8510

TITLE OF INVENTION: METHOD FOR PRODUCING DISPLAY APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	10/12/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

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J. . . .

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						(Date)
APPLICATION NO.	FILING DATE		FIRST NAME	D INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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KOVALICK	, VINCENT E	2673		345-690000		
1. Change of correspondence CFR 1.363).	ce address or indication of "Fe	e Address" (37	2. For pri	nting on the patent front page, l	ist	
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PLEASE NOTE: Unless recordation as set forth in	s an assignee is identified be n 37 CFR 3.11. Completion of	low, no assignee of this form is NOT	data will app Fa substitute	pear on the patent. If an assign for filing an assignment.	nee is identified below, the o	locument has been filed for
(A) NAME OF ASSIGN	IEE	(В) RESIDENO	CE: (CITY and STATE OR CO	UNTRY)	
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4a. The following fee(s) are	enclosed:	4b	. Payment of	` '		
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☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies		ı)	☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to			
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- ·	(from status indicated above	•				
☐ a. Applicant claims Sh	MALL ENTITY status. See 3	7 CFR 1.27.	☐ b. Applica	ant is not claiming SMALL EN	TITY status. See, e.g., 37 CF	R 1.27(g)(2).
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This collection of information application. Confidential	on is required by 37 CFR 1.31 lity is governed by 35 U.S.C.	1. The information	n is required	to obtain or retain a benefit by llection is estimated to take 12	the public which is to file (an	d by the USPTO to process)
submitting the completed a	pplication form to the USPTO	O. Time will vary	depending u	pon the individual case. Any contain Officer, U.S. Patent and D FORMS TO THIS ADDRES.	omments on the amount of ti	me you require to complete
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025191	7590	07/12/2004		EXAM	INER
BURR & BROWN				KOVALICK, VINCENT E	
PO BOX 7068 SYRACUSE, NY 13261-7068		68	!	ART UNIT	PAPER NUMBER
,				2673	

DATE MAILED: 07/12/2004

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 447 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 447 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	
Nation of Allowahility	09/803,744	TAKEUCHI ET AL.	
Notice of Allowability	Examiner	Art Unit	/
	Vincent E Kovalick	2673	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31;	(OR REMAINS) CLOSED in this ap or other appropriate communication (IGHTS). This application is subject to and MPEP 1308.	plication. If not included n will be mailed in due cou	urse. THIS
1. This communication is responsive to <u>applicant's amendment</u>	ent dated June 23, 2004.		
2. ⊠ The allowed claim(s) is/are <u>12-37</u> . ∕			
3. $igspace$ The drawings filed on <u>08 March/2001</u> are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unal priority unal priority and priority and priority and priority and priority and priority documents have a complex of the priority documents have a complex of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of	e been received. e been received in Application No		n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			TCE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the process of the proce	son's Patent Drawing Review (PTO 's Amendment / Comment or in the C	Office action of ngs in the front (not the ba	ıck) of
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9,12,13,14 &15 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dai 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment ent of Reasons for Allowa	ince
		Amare Mengistu Primary Examiner	n

Art Unit: 2673

DETAILED ACTION

Response to Amendment

1. This Office Action is in response to Applicant's Amendment dated June 23, 2004 in response to USPTO Office Action dated November 25,2003.

The cancellation of claims 1-11, and the addition of new claims 18-37 have been noted and entered in the record.

Allowable Subject Matter

- 2. Claims 12-37 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Relative to claims 12 and 32 the major difference between the teachings of the said prior art of record (USP 6,509,884, Kasahara et al.; USP 6,493,468, Matsuura and USP 6288,756, Shiota et al) and that of the instant invention is that said prior art of record **does not teach** a method for producing a display or optical switch apparatus constructed by arranging a plurality of display or optical switch units arranged with a plurality of display or optical switch components, said method comprising the steps of obtaining characteristic values for said respective display or optical switch units respectively; ranking said display or optical switch units on the basis of said obtained characteristic values; partitioning an arrangement area (Z10) for said plurality of display or optical switch units of said display or optical switch apparatus to designate ranks of said display or optical switch units to be arranged in respective areas (Z11, Z12); and arranging

Application/Control Number: 09/803,744

Art Unit: 2673

said display units in accordance with said designation to manufacture said display or optical switch apparatus.

Regarding claims 18 and 26, the major difference between the teachings of the said prior art of record and that of the instant invention is that said prior art of record does not teach a method for producing a display or optical switch apparatus constructed by arranging with a plurality of display or optical switch units arranged with a plurality of display or optical switch components, wherein said plurality of display or optical switch components which are arranged around said display or optical switch components, are included in a group of said display or optical switch components corresponding to (2m + 1) rows aligned in a vertical direction, and they are included in a group of said display or optical switch components corresponding to (2n + 1) columns aligned in a horizontal direction; regarding an obtained average value as said luminance target value of said display or optical switch component; and calculating luminance correction coefficients for said respective display or optical switch components on the basis of said luminance target values of said respective display or optical switch components. Relative to claims 21 and 29, the major difference between the teachings of the said prior art of record and that of the instant invention is that said prior art of record does not teach a method for producing a display or optical switch apparatus constructed by arranging a plurality of display or optical switch units arranged with a plurality of display or optical switch components comprising the method step of retrieving said display of optical switch component which exhibits a minimum value of said calculated luminance target values; and increasing said current luminance target value by a certain value for said retrieved display or optical switch component.

Application/Control Number: 09/803,744

Art Unit: 2673

Regarding claims 22 and 30 the major difference between the teachings of the said prior art of record and that of the instant invention is that said prior art of record **does not teach** a method for producing a display or optical switch apparatus constructed by arranging a plurality of display or optical switch units arranged with a plurality of display or optical switch components comprising the method step of retrieving said display or optical switch component which exceeds a threshold value of said calculated luminance target values; and decreasing said current luminance target value to said threshold value for said retrieved display or optical switch component.

Relative to claim 23 the major difference between the teachings of the said prior art of record and that of the instant invention is that said prior art of record does not teach a method for producing a display apparatus constructed by arranging a plurality of display units arranged with a plurality of display components comprising the method steps of performing standardization for said calculated luminance target values for said respective display components in accordance with a color scheme respectively; making amendment so that value obtained after said standardization are included in a certain range; and performing a restoring process for values obtained after said amendment in accordance with said color scheme respectively to obtain luminance target values in consideration of said color temperature.

Regarding claims 25 and 31 the major difference between the teachings of the said prior art of record and that of the instant invention is that said prior art of record does not teach the method for producing said display or optical switch apparatus constructed by arranging a plurality of display or optical switch units arranged with a plurality of display or optical switch components wherein said display or optical switch unit is a display or optical switch unit comprising an

Application/Control Number: 09/803,744

Art Unit: 2673

optical waveguide plate for introducing light from a light source thereinto, and a driving section provided opposingly to a first plate surface of said optical waveguide plate and arranged with said display or optical switch components of a number corresponding to a large number of picture elements, wherein a screen image corresponding to an image signal is displayed on said optical waveguide plate by controlling a displacement action of an actuator element of said display or optical switch component in a direction to make contact or separation with respect to said optical waveguide plate in accordance with an attribute of said image signal to be inputted so that leakage light is controlled at a predetermined portion of said optical waveguide plate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U. S. Patent No.	6,388,648	Clifton et al.
U. S. Patent No.	6,219,460	Tatsuta
U. S. Patent No.	6,091,397	Lee
U. S. Patent No.	6,020,868	Greene et al.
U. S. Patent No.	5,774,101	Hirai et al.
U. S. Patent No.	5,668,569	Green et al.
U. S. Patent No.	5,106,181	Rockwell, III

Page 6

Responses

Any inquiry concerning this communication or earlier communications from the 5. examiner should be directed to Vincent E Kovalick whose telephone number is 703 306-3020. The examiner can normally be reached on Monday-Thursday 7:30- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703 305-4938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 28, 2004